

Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.

08935-251001

Application No.

09/988,298

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant

William L. Bowden *et al.*

Filing Date

November 19, 2001

Group Art Unit

1745

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
LSW	AA	4,133,856	1/9/1979	Ikeda <i>et al.</i>			
LSW	AB	4,246,253	1/20/1981	Hunter			
LSW	AC	4,312,930	1/26/1982	Hunter			
LSW	AD	4,604,336	8/5/1986	Nardi			
LSW	AE	4,904,552	2/27/1990	Furukawa <i>et al.</i>			
LSW	AF	4,975,346	12/4/1990	Lecerf <i>et al.</i>			
LSW	AG	5,114,804	5/19/1992	Stiles <i>et al.</i>			
LSW	AH	5,425,932	6/20/1995	Tarascon			
LSW	AI	5,759,510	6/2/1998	Pillai			
LSW	AJ	5,955,052	9/21/1999	Padhi <i>et al.</i>			
LSW	AK	5,997,839	12/7/1999	Pillai			
LSW	AL	6,207,129 B1	3/27/2001	Padhi <i>et al.</i>			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
LSW	AM ✓	Ammundsen <i>et al.</i> , "Mechanism of Proton Insertion and Characterization of the Proton Sites in Lithium Manganate Spinel," Chem. Mater., Vol. 7, No. 11, pp. 2151-2160, (1995).
LSW	AN ✓	Bowden <i>et al.</i> , "Manganese Dioxide for Alkaline Zinc Batteries: Why Electrolytic MnO <sub>2</sub> ?", ITE Letters on Batteries, New Technologies & Medicine, Vol. 1, No. 6, (2000).
LSW	AO ✓	Dahn <i>et al.</i> , "Thermal stability of Li <sub>x</sub> CoO <sub>2</sub> , Li <sub>x</sub> NiO <sub>2</sub> and λ-MnO <sub>2</sub> and consequences for the safety of Li-ion cells," Solid State Ionics, Vol. 69, Nos. 3-4, pp. 265-270, (1994).
LSW	AP ✓	David <i>et al.</i> , "Structure Refinement of the Spinel-Related Phases Li <sub>2</sub> Mn <sub>2</sub> O <sub>4</sub> and Li <sub>0.2</sub> Mn <sub>2</sub> O <sub>4</sub> ," J. Solid State Chem., Vol. 67, pp. 316-323, (1987).
LSW	AQ ✓	Geronov <i>et al.</i> , "Rechargeable Compact Li Cells with Li <sub>x</sub> Cr <sub>0.9</sub> V <sub>0.1</sub> S <sub>2</sub> and Li <sub>1+x</sub> V <sub>3</sub> O <sub>8</sub> Cathodes and Ether-Based Electrolytes," J. of the Electrochemical Soc., Vol. 137, No. 11, pp. 3338-3344, (1990).
LSW	AR ✓	Giwa <i>et al.</i> , "Lithium Primary Envelope Cells," 16 <sup>th</sup> Intern. Seminar & Exhibition on Primary & Secondary Batteries, pp.Q1-11 (1999).
LSW	AS ✓	Hunter, J. C. and Tudron, F. B., "Nonaqueous Electrochemistry of Lambda MnO <sub>2</sub> ," Proc. Electrochem. Soc. Vol. 85-4, pp. 444-451, (1985).

Examiner Signature

Date Considered

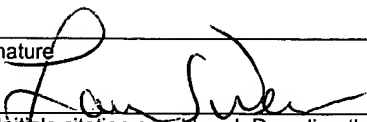
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08935-251001	Application No. 09/988,298
<b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary)		Applicant William L. Bowden <i>et al.</i>	
		Filing Date November 19, 2001	Group Art Unit 1745

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
LSW	AT ✓	Hunter, James C., "Preparation of a New Crystal of Manganese Dioxide: $\lambda$ -MnO <sub>2</sub> ," Journal of Solid State Chemistry, Vol. 39, pp. 142-147, (1981).
LSW	AU ✓	Larcher <i>et al.</i> , "Synthesis of MnO <sub>2</sub> Phases from LiMn <sub>2</sub> O <sub>4</sub> in Aqueous Acidic Media," J. Electrochem. Soc., Vol. 145, No. 10, pp. 3392-3400, (1998).
LSW	AV ✓	Manev, V. <i>et al.</i> , "Rechargeable lithium battery with spinel-related $\lambda$ -MnO <sub>2</sub> 1. Synthesis of $\lambda$ -MnO <sub>2</sub> for battery applications," Journal of Power Sources, 43-44, pp. 551-559, (1993).
LSW	AW ✓	Mosbah <i>et al.</i> , "Phases Li <sub>x</sub> MnO <sub>2</sub> $\lambda$ Rattachees au Type Spinelle," with English abstract, Bater. Res. Bull., Vol. 18, pp. 1375-1381, (1938).
LSW	AX ✓	Patrice <i>et al.</i> , "Understanding the second electron discharge plateau in MnO <sub>2</sub> -based alkaline cells," ITE Letters on batteries, New Technologies and Medicine, Vol. 2, No. 4, (2001).
LSW	AY ✓	Read <i>et al.</i> , "Low Temperature Performance of $\lambda$ -MnO <sub>2</sub> in Lithium Primary Batteries," Solid State Letters, Vol. 4, No. 10, pp. A162-165, (2001).
LSW	AZ ✓	Schilling <i>et al.</i> , "Modification of the High-Rate Discharge Behavior of Zn-MnO <sub>2</sub> Alkaline Cells through the Addition of Metal Oxides to the Cathode," ITE Letters on Batteries, New Technologies & Medicine, Vol. 2, No. 3, (2001).
LSW	AAA ✓	Tarascon <i>et al.</i> , "Chemical and electrochemical insertion of Na into the spinel $\lambda$ -MnO <sub>2</sub> phase," Solid State Ionics, Vol. 57, pp. 113-120, (1992).
LSW	ABB ✓	Tarascon <i>et al.</i> , "The Spinal Phase of LiMn <sub>2</sub> O <sub>4</sub> as a Cathode in Secondary Lithium Cells," Electrochem. Soc., Vol. 138, No. 10, pp. 2859-2864, (1991).
LSW	ACC ✓	Tarascon, J. M. and Guyomard, D., "The Li <sub>1+x</sub> Mn <sub>2</sub> O <sub>4</sub> /C Rocking-Chair System: A Review," J. Electrochimica Acta, Vol. 38, No. 9, pp. 1221-1231, (1991).
LSW	ADD ✓	Xia, Xi and Sun Weiwei, "The electrochemical performance of $\lambda$ -MnO <sub>2</sub> in alkaline solution," abstract only, Dianyuan Jishu, 23 (Suppl.), pp. 74-76, (1999).

**RECEIVED**  
MAR 20 2002  
TC 1700

Examiner Signature 	Date Considered 8-7-03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	